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Preliminary Amendment

1. An imaging system [(1)] for imaging a document, comprising a support surface [(12)] for a document [(30)] to be imaged, a light stripe projector [(4)] arranged to project a plurality of diverging sheets of light [(48)] that extend from the projector [(4)] towards the support surface [(12)] for forming a series of stripes [(35)] across the document [(30)], a camera [(2)] having a detector array [(22)] for capturing an image [(31,33)] of the document [(30)] and of light stripes [(35)] projected onto the document [(30)], a processor [(25)] arranged to receive [(23)] from the detector array [(22)] data representative of images [(31,33)] of the document [(30)] and of the light stripes [(35)] and to calculate therefrom a three-dimensional profile of the document [(30)] relative to a reference surface, wherein [characterised in that] the relative divergence of adjacent sheets of light [(48)] varies laterally across the sheets [(48)] so that the stripes [(35)] are concentrated where the divergence is relatively low [(56)].

2. An imaging system [(1)] as claimed in Claim 1, in which at least one of the sheets of light [(51,53)] is non-planar with a variable divergence from an adjacent sheet.

3. An imaging system [(1)] as claimed in Claim 2, in which there is a planar sheet of light [(52)] with diverging sheets [(51,53)] either side of the planar sheet [(52)].